

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	329	(fuel ADJ additive) AND gel AND (dispersant OR (polyisobutylene ADJ succinimide)) AND (detergent OR (alkylbenzenesulfonate)) AND (antioxidant OR (anti ADJ oxidant) OR (nonylated ADJ diphenylamine))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:23
S2	5	S1 AND soot AND emission	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:17
S3	1	(fuel WITH additive) AND gel AND (polyisobutylene ADJ succinimide) AND (alkylbenzenesulfonate) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:29
S4	2	fuel AND gel AND (polyisobutylene ADJ succinimide) AND (alkylbenzenesulfonate) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:23
S5	0	fuel AND gel AND (polyisobutylene ADJ succinimide) AND (alkylbenzenesulfonate) AND (nonylated ADJ diphenylamine)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 08:23
S6	0	(fuel ADJ additive) AND gel AND (dispersant OR (polyisobutylene ADJ succinimide)) AND (detergent OR (alkylbenzenesulfonate)) AND (antioxidant OR (anti ADJ oxidant) OR (nonylated ADJ diphenylamine))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 08:23
S7	84	fuel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 08:25
S8	660	(44/265,268,270,271,628,640).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/17 08:28
S9	0	S8 AND gel AND (polyisobutylene ADJ succinimide) AND (alkylbenzenesulfonate) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:29
S10	0	S8 AND (polyisobutylene ADJ succinimide) AND (alkylbenzenesulfonate) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:29
S11	0	S8 AND ((polyisobutylene ADJ succinimide) OR (poly ADJ isobutylene ADJ succinimide)) AND ((alkylbenzenesulfonate) OR (alkyl ADJ benzene ADJ sulfonate) OR (alkylbenzene ADJ sulfonate)) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:48
S12	5	((polyisobutylene ADJ succinimide) OR (poly ADJ isobutylene ADJ succinimide)) AND ((alkylbenzenesulfonate) OR (alkyl ADJ benzene ADJ sulfonate) OR (alkylbenzene ADJ sulfonate)) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:30
S13	44	("20020014447" "20020153505" "20030053927" "3336223" "3749247" "4014794" "4061572" "4066559" "4075098" "4144166" "4144169" "4639255" "4751901" "4755289" "5032259" "5042617" "5059217" "5069799" "5249552" "5314632" "5327861" "5374354" "5435912" "5456217" "5478463" "5507942" "5527452" "5552040" "5573557" "5580359" "5591330" "5662799" "5695531" "5718258" "5725031" "5897770" "5962378" "6045692" "6127321" "6140279" "6238554" "6310010" "RE37369").PN. OR ("6843916").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:31
S14	10	S13 AND fuel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:32
S15	7	S13 AND fuel AND gel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:38

S16	382	fuel AND gel AND ((ashless ADJ succinimide) OR (polyisobutylene ADJ succinimide) OR (alkenyl ADJ succinimide) OR (decyl ADJ methacrylate) OR (vinyl ADJ decyl ADJ ether)) AND (sulfonate OR sulphonate OR phenate OR salicylate OR carboxylate) AND (phenol OR (phenate ADJ sulfide))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:37
S17	341	S16 AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 08:38
S18	6	S17 AND soot AND emission	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:47
S19	3	(("3342733") or ("4382005")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/17 12:29
S20	972	lubrizol.as.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:46
S21	1731	(burrington OR daly OR (herman NEAR3 george)).in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:47
S22	120	(S20 OR S21) AND fuel AND gel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:47
S23	3	S22 AND soot AND emission	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:48
S24	3	S22 AND ((polyisobutylene ADJ succinimide) OR (poly ADJ isobutylene ADJ succinimide)) AND ((alkylbenzenesulfonate) OR (alkyl ADJ benzene ADJ sulfonate) OR (alkylbenzene ADJ sulfonate)) AND (nonylated ADJ diphenylamine)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:50
S25	1	S22 AND succinic AND (maleic ADJ anhydride ADJ styrene ADJ copolymers) AND (maleated ADJ ethylene ADJ diene) AND surfactant AND emulsifier AND (carbon ADJ black) AND silica AND alumina AND titania AND (magnesium ADJ oxide) AND (calcium ADJ carbonate) AND lime AND clay AND zeolite AND (pressure ADJ agent) AND (wear ADJ reduction) AND (viscosity ADJ index) AND (anti ADJ foaming) AND (combustion ADJ modifier)	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:54
S26	26	S22 AND succinic AND ((maleic ADJ anhydride ADJ styrene ADJ copolymers) OR (maleated ADJ ethylene ADJ diene) OR surfactant OR emulsifier) AND ((carbon ADJ black) OR silica OR alumina OR titania OR (magnesium ADJ oxide) OR (calcium ADJ carbonate) OR lime OR clay OR zeolite) AND ((pressure ADJ agent) OR (wear ADJ reduction) OR (viscosity ADJ index) OR (anti ADJ foaming) OR (combustion ADJ modifier))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 13:04
S27	24	S26 NOT S24	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/17 12:59
S28	11	fuel AND gel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant)) AND soot AND emission AND succinic AND ((maleic ADJ anhydride ADJ styrene ADJ copolymers) OR (maleated ADJ ethylene ADJ diene) OR surfactant OR emulsifier) AND ((carbon ADJ black) OR silica OR alumina OR titania OR (magnesium ADJ oxide) OR (calcium ADJ carbonate) OR lime OR clay OR zeolite) AND ((pressure ADJ agent) OR (wear ADJ reduction) OR (viscosity ADJ index) OR (anti ADJ foaming) OR (combustion ADJ modifier))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 10:48

S29	11	fuel AND gel AND dispersant AND detergent AND (antioxidant OR (anti ADJ oxidant)) AND soot AND emission AND succinic AND ((maleic ADJ anhydride ADJ styrene ADJ copolymers) OR (maleated ADJ ethylene ADJ diene) OR surfactant OR emulsifier) AND ((carbon ADJ black) OR silica OR alumina OR titania OR (magnesium ADJ oxide) OR (calcium ADJ carbonate) OR lime OR clay OR zeolite) AND ((pressure ADJ agent) OR (wear ADJ reduction) OR (viscosity ADJ index) OR (anti ADJ foaming) OR (combustion ADJ modifier))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 10:50
S30	241	fuel AND catalyst AND ((Na WITH K WITH Co WITH Ni WITH Fe WITH Cu WITH Mn) OR (sodium WITH potassium WITH cobalt WITH nickel WITH iron WITH copper WITH manganese))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 10:52
S31	72	fuel AND (catalyst SAME ((Na WITH K WITH Co WITH Ni WITH Fe WITH Cu WITH Mn) OR (sodium WITH potassium WITH cobalt WITH nickel WITH iron WITH copper WITH manganese)))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 10:53
S32	1	fuel AND (catalyst SAME (organometallic OR (organo ADJ metallic)) SAME ((Na WITH K WITH Co WITH Ni WITH Fe WITH Cu WITH Mn) OR (sodium WITH potassium WITH cobalt WITH nickel WITH iron WITH copper WITH manganese)))	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 11:15
S33	117	full WITH flow WITH bypass WITH oil	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 11:18
S34	2	gel WITH full WITH flow WITH bypass WITH oil WITH reservoir	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/20 11:18